
SPENCER COUNTY

(Spencer County Water Service Area Map)

- Estimated 1999 population of 10,000--90% on public water
- Estimated 2020 population of 18,700--94% on public water
- 145 miles of water lines, with plans for 46 additional miles
- Estimated funding needs for public water 2000-2005:\$4,303,000
- Estimated funding needs for public water 2006-2020:\$0

Spencer County had an estimated population of 10,049 (4,021 households) in 1999 with a projected population of 18,683 (7,654 households) in 2020. Public water is provided to about 90 percent of the county's residents. In areas of the county not served by public water, about 1/5 of the households rely on private domestic wells and 4/5 rely on other sources. About 310 households will be added to public water service through new line extensions in 2000-2020.

Estimated Costs - Proposed Projects, 2000-2005

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
SPENCER								-
Taylorsville Water Works	46	312	1,303	2,000			1,000	4,303
SPENCER COUNTY TOTAL	46	312	1,303	2,000			1,000	4,303

PUBLIC WATER SYSTEMS

Residents of Spencer County are served by the Taylorsville Water Works. A few customers in the southwestern part of the county are served by the Nelson County Water District. The U.S. 60 Water District serves about a dozen households in the northwestern portion of Spencer County.

WATER SERVICE AREAS

SPENCER COUNTY

Kentucky

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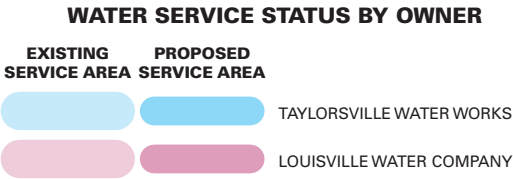
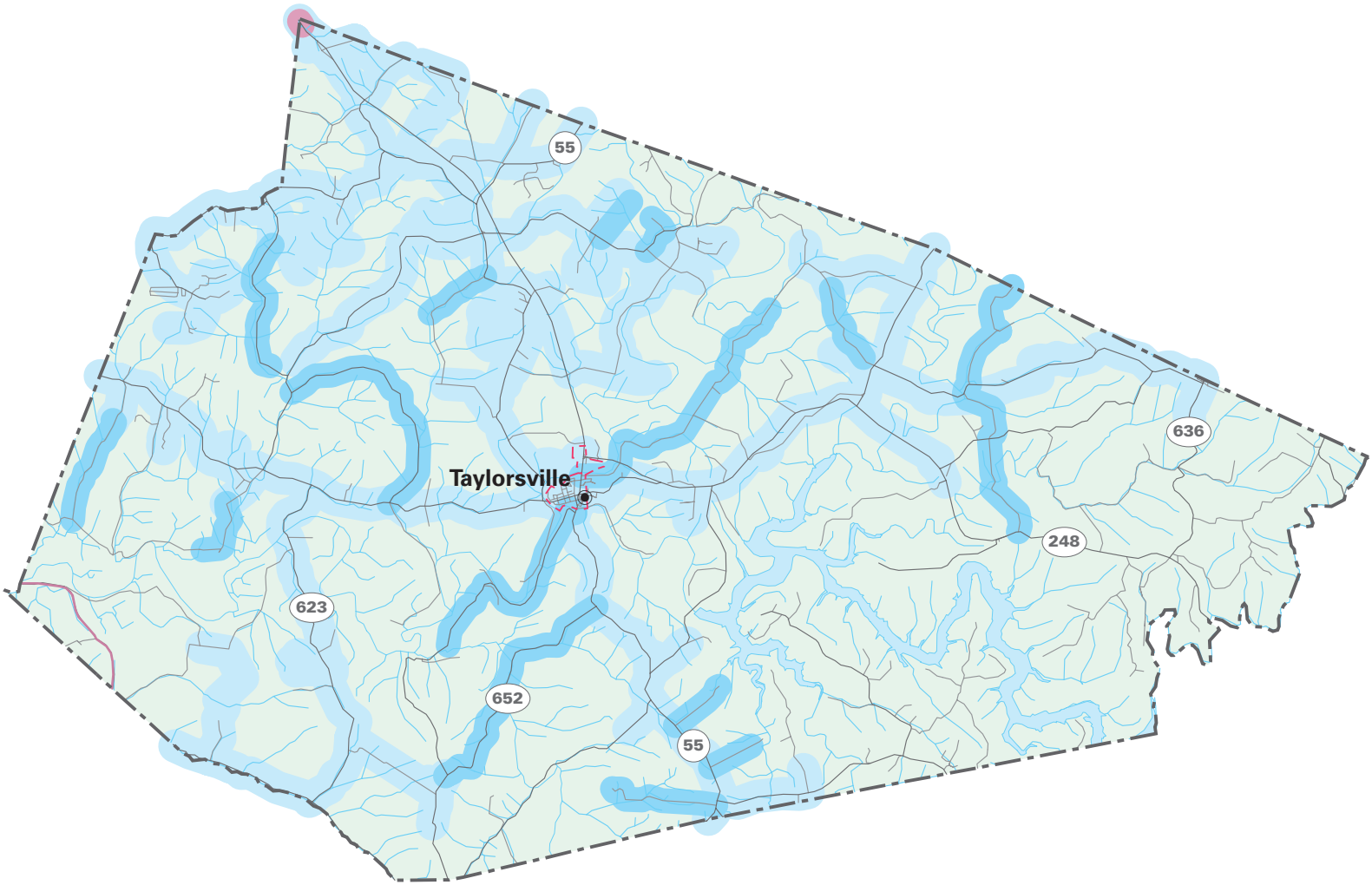
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TAYLORSVILLE WATER WORKS

PWSID: 1080425
System Type: COMMUNITY
Owner Type: MUNICIPAL
Surface Source: SALT RIVER
Purchase Source: LOUISVILLE WATER COMPANY
Well Source:
Sells Water to:
Treatment Plant Capacity (MGD): 0.864
Percent Daily Average Production: 60.00
Total Tank Storage Capacity (gallons): 850,000.00
Total Service Connections: 3,429.00
Number of Employees: 9.00
Treatment Operator Class: 2D
Distribution Operator Class: 3A
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available
O/M costs per Service Connection: Not available
Net Revenue 1997: Not available
Total Water Produced 1997 (gallons): Not available
Water Sold 1997 (gallons): Not available
Unaccounted-for Water 1997 (%): Not available

The main supplier of water in Spencer County is the Taylorsville Water Works. The Taylorsville Water Works is now currently buying all its water from the Louisville Water Company. The L.W.C. has more than adequate source of water to furnish the future needs of Taylorsville Water. This system presently serves 2,701 customers in Spencer County; 66 in Jefferson County; 30 in Nelson County; 208 in Shelby County; and 392 in Bullitt County. The total annual volume of water sold is 154.6 million gallons. They have 9 tanks with a storage capacity of 850,000 gallons total. The municipal system has treatment capacity of 864,000 gallon per day. The water source is surface water from Salt River. There are 9 full-time employees of which 4 are certified operator.

Expansion and system upgrade is usually taken one project at a time, whenever the need arises. Contracted engineers are presently working on several line extension project plans. According to the Kentucky Population Research, Spencer County will double in population by the year 2020. This makes Spencer County the fastest growing county in Kentucky. The Taylorsville Water system serves 90% of the Spencer County households. An additional storage capacity of at least 750,000 gallons; and upgrading of the existing infrastructure is crucial for increased flow and pressure. The immediate need of line extensions in this

territory results primarily from the rapid residential growth and commercial potential. The approximate cost and customer impact were ascertained after discussion with system operators and their engineers.

PRIVATE DOMESTIC SYSTEMS

About 900 residents of Spencer County rely on private domestic water supplies: about 180 on wells and 720 on other sources.

In the Salt River valley bottoms west of Taylorsville and in far eastern end of the county, most drilled wells in the valley will produce enough water for a domestic supply at depths of less than 100 feet. Wells located in the rest of the larger valleys throughout the county will produce enough water for a domestic supply except during dry weather. In the upland area Spencer County which encompasses approximately 60% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines which may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.
